

City of San Diego Alvarado 2nd Pipeline Extension Project

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December 4, 2024



Background and Need

- City provides reliable water service every day to San Diego residents through hundreds of miles of pipelines
- Water infrastructure, like pipelines, needs maintenance and replacement as it ages
- Some pipelines in the City are more than 100 years old

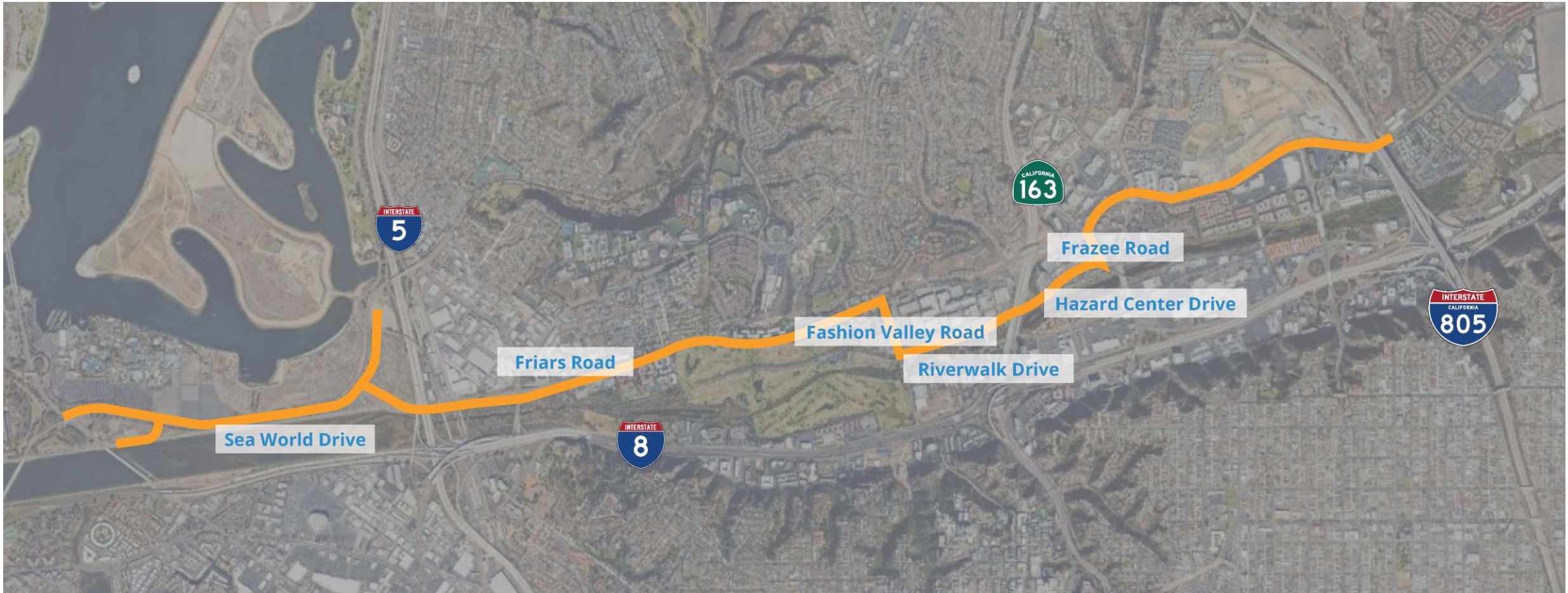
SD Project Benefits

- Improve our water reliability and distribution to coastal communities
- Reduce reliance on aging pipelines
- Minimize risk for costly water main breaks by making a smart investment proactively
- Enhance community accessibility in Mission Valley area – ADA curb ramps and repaving



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SD Project Corridor



SD Project Details

- New 24- and 48-inch diameter transmission mains installed along Friars Road, between West Mission Bay Drive and I-805
- New 36-inch transmission branch installed connecting in Napa Street for future connection to the Morena Pipeline
- Replace 12- and 16-inch diameter pipelines along Friars Road and along Sea World Drive
- New pressure reducing station installed in City-owned parking lot





Project Detailed Alignment



LEGEND

- 12-inch Proposed Water Main (PVC)
- - - 12-inch Existing Water Main to be replaced/abandoned (AC)
- 16-inch Water Main to be replaced
- 24-inch Alvarado 2nd CML&C Water Main
- 48-inch Alvarado 2nd CML&C Water Main
- 36-inch Water Main Branch (will connect to Morena PS Pipeline)
- Pressure Regulating Station (PRS)

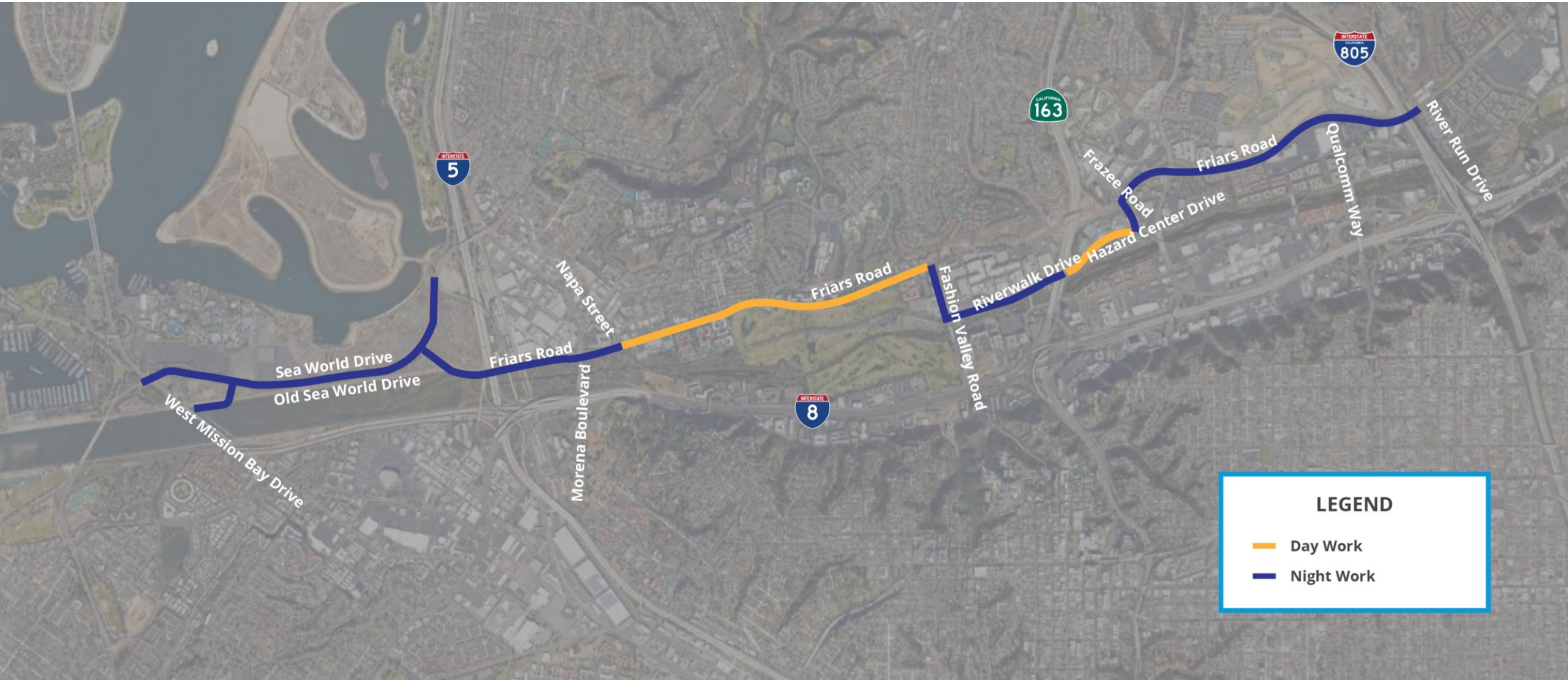
SD Project Schedule and Working Hours

- Underground utility location work is ongoing
- Pipeline installation to begin early 2025
 - Starting near Friars Road and Napa Street, moving east
- Working hours:
 - Daytime: 8:30 a.m. to 3:30 p.m. Mon.- Fri.
 - Nighttime: 8:00 p.m. to 6:00 a.m. Mon.- Fri.
- Estimated Completion: 2028





Day Work vs. Night Work



LEGEND

- Day Work
- Night Work

SD What You Can Expect

- Traffic maintained on West Mission Bay Drive and Friars Road where safe
- Lane closures around active work zones
- Access maintained for homes and businesses
- Temporary paving installed after pipeline installation
 - Final paving with bike lanes will follow



SeaWorld San Diego

Sea World Drive

San Diego River

West Mission Bay Drive



Friars Road



Sea World Drive from W. Mission Bay Drive to I-5

- Replacing 12-inch distribution main
- Constructing 24-inch water transmission main (to Friars Road)
- Pipeline will be on the south side of Sea World Drive
- One lane closure - two-way traffic maintained
- Coordination with SeaWorld and Caltrans
- Signage for beach communities



Morena Boulevard

Napa Street

San Diego Police Department
Western Division

Morena/Linda Vista
Trolley Station

Mission Valley YMCA

Sea World Drive



Friars Road

San Diego River



Friars Road from Sea World Drive to Napa Street

- 24-inch transmission main
- Pipeline will be on the south side of Friars Road
- Two-way traffic maintained
- Bike lane detoured
- Access to homes and businesses maintained
- MTS and Caltrans coordination

University of San Diego

The Bluffs

Fashion Valley Road

Woodsprings Apartments

Friars Road

Napa Street

The Courtyards

Presidio Place

Riverwalk Golf Club

Mission Valley YMCA

Friars Road from Napa Street to Fashion Valley Road

- 48-inch transmission main
- 16-inch distribution main replacement
- Pipeline will be on the south side of Friars Road
- Two-way traffic maintained
- Access to homes and businesses maintained
- Bike lane detoured





Friars Road

Frazee Road

Hazard Center

Hazard Center Drive



Fashion Valley Mall

Fashion Valley Road

Riverwalk Drive

Fashion Valley Transit Center

Fashion Valley Road, Riverwalk Drive, Hazard Center Drive and Frazee Road

- 48-inch transmission main
- 16-inch distribution main (Fashion Valley Road)
- Two-way traffic maintained
- Coordination with Fashion Valley Mall and Hazard Center
- Access to MTS trolley station maintained
- Alternate access routes will be utilized





Friars Road from Frazee Road to I-805

- 48-inch transmission main
- 16-inch distribution main replacement (Frazee Road to east of Mission Center Road)
- Pipeline will be on the north side of Friars Road
- One-way eastbound traffic maintained
- On and off ramps closed for westbound traffic
- Access maintained for businesses and Civita community

SD Community Outreach

- Ongoing communications throughout construction
 - Door hanger notifications in advance of work
 - Project phone and email line to field inquiries
 - Continued presentations at community groups
 - Email blasts in advance of new traffic control setup
- Close coordination with other City and agency teams for scheduling and streamlining



The City of
SAN DIEGO

Alvarado 2nd Pipeline Extension Project

Background

The City of San Diego provides water to 1.4 million residents each and every day through hundreds of miles of pipelines, and these underground pipelines need maintenance and replacement as they reach the end of their lifespans. The **Alvarado 2nd Pipeline Extension Project** will extend and replace aging water pipelines to improve water reliability and distribution in San Diego, focusing on efficient water delivery to the City's coastal communities.

Benefits

Reliable/Environmentally Sustainable: Provides new, reliable water pipelines to ensure secure drinking water service for the future.

Replaces Aging Infrastructure: Replaces miles of aging water distribution mains.

Smart Investment: A proactive move to ensure a reliable pipeline system and minimize risk for costly breaks.

Efficient Delivery: Expands the network of water distribution to coastal communities in San Diego.

Project Components and Location

The Alvarado 2nd Pipeline Extension Project includes the construction of approximately 10 miles of water mains in the Mission Valley and Mission Bay areas. New 24 and 48-inch transmission mains will be installed along Friars Road, between Interstate 805 (where it connects to the existing Alvarado Pipeline) and West Mission Bay Drive (where it connects to the recently installed Pacific Beach Pipeline). A new 36-inch transmission main branch will be installed at Napa Street for future connection to the Morena Pipeline, which will be constructed after this project. A new pressure reducing station will be installed on Napa Street in a City-owned parking lot. A 12-inch distribution main will be replaced along Sea World Drive, between Interstate 5 and West Mission Bay Drive. Additionally, a 16-inch distribution main will be replaced along Friars Road where it is parallel to the new Alvarado 2nd Pipeline transmission main.

Project Schedule

Mid-2024: Contractor Selected and Construction Begins
2028: Construction Completion

Project Manager: Jericho Gallardo
Project Engineer: Kennedy/Jenks Consultants

Map of Project Location



The primary project location is in the Mission Valley and Mission Bay areas of San Diego.

For more information about this project: 619-533-4199 | alvarado2nd@sandiego.gov | sandiego.gov/cip/projectinfo/featuredprojects/alvarado

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